

LEXAN™ HF1140R resin

Polycarbonate

SABIC Innovative Plastics

Message:

LEXAN HF1140R is a high flow grade. This material is especially designed for applications that require thin wall sections and high flow lengths. FDA food contact compliant in limited colors. Effective January 15th, 2007 this grade is no longer supported with biocompatibility information and should not be used for medical applications which require biocompatibility. Contact your GE representative for the alternative grade in the LEXAN HP series.

General Information			
UL YellowCard	E207780-100726493		
Features	High liquidity		
	Compliance of Food Exposure		
Uses	Thin wall parts		
Agency Ratings	FDA Food Exposure, Not Rated		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	25	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	62.1	MPa	ASTM D638
Fracture	65.5	MPa	ASTM D638
Tensile Elongation ² (Break)	120	%	ASTM D638
Flexural Modulus ³ (50.0 mm Span)	2310	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	93.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	640	J/m	ASTM D256
Instrumented Dart Impact (23°C, Energy at Peak Load)	54.2	J	ASTM D3763
Tensile Impact Strength ⁵	378	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	127	°C	ASTM D648
RTI Elec	130	°C	UL 746
RTI Imp	130	°C	UL 746
RTI	130	°C	UL 746
Electrical	Nominal Value		Test Method
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)	PLC 1		UL 746

High Voltage Arc Tracking Rate (HVTR)	PLC 2		UL 746
Hot-wire Ignition (HWI)	PLC 2		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.09 mm)	V-2		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance (2540 μm)	88.0	%	ASTM D1003
Haze (2540 μm)	1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	48	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	40 - 60	%	
Rear Temperature	249 - 271	°C	
Middle Temperature	260 - 282	°C	
Front Temperature	271 - 293	°C	
Nozzle Temperature	266 - 288	°C	
Processing (Melt) Temp	271 - 293	°C	
Mold Temperature	71.1 - 93.3	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.025 - 0.076	mm	
NOTE			
1.	Type 1, 50mm/min		
2.	Type 1, 50mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	Type S		

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